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APPLICATION NO.	FILING DATE	. FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,053	11/13/2003	Mark Dismer	Q78319	6353
	7590 01/25/200	EXAMINER		
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			NGO, CHUONG D	
			ART UNIT	PAPER NUMBER
	, 20 20027		2193	
 				
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
. 3 MO	NTHS	01/25/2007	PAF	PER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

-		Application No.	Applicant(s)			
		10/706,053	DISMER, MARK			
	Office Action Summary	Examiner	Art Unit			
		Chuong D. Ngo	2193			
Period fo	The MAILING DATE of this communication apport Reply	pears on the cover sheet v	vith the correspondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAMPINS OF THE MAILIN	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MC	ICATION. reply be timely filed NTHS from the mailing date of this communication.			
Status						
1)[🛛	Responsive to communication(s) filed on 13 N	ovember 2003				
	_	action is non-final.				
3)	, — :					
-,	closed in accordance with the practice under E	·				
Dispositi	ion of Claims	an panes quayre, root or	2, 11, 100 3.3, 213			
	Claim(s) <u>1-7</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdraw	vn from consideration				
	Claim(s) is/are allowed.	wir irom consideration.				
	Claim(s) <u>1-7</u> is/are rejected.					
	Claim(s) is/are rejected. Claim(s) is/are objected to.					
	Claim(s) are subject to restriction and/o	r clastian requirement				
ا (۵	are subject to restriction and/o	r election requirement.				
Applicati	on Papers		·			
9) 🗌	The specification is objected to by the Examine	r.				
10)🖂	The drawing(s) filed on <u>13 November 2003</u> is/a	re: a)⊠ accepted or b)[objected to by the Examiner.			
	Applicant may not request that any objection to the					
,	Replacement drawing sheet(s) including the correct					
11)	The oath or declaration is objected to by the Ex	aminer. Note the attache	d Office Action or form PTO-152.			
Priority u	ınder 35 U.S.C. § 119	•				
12)🛛	Acknowledgment is made of a claim for foreign	priority under 35 U S C	& 119(a)-(d) or (f)			
	☑ All b)☐ Some * c)☐ None of:	promy and or or or or or or	3			
	1. Certified copies of the priority documents	s have been received				
	2. Certified copies of the priority documents		Application No			
	3. Copies of the certified copies of the prior					
	application from the International Bureau	•	Treceived in this National Stage			
* S	see the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	t received			
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2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) (s)/Mail Date			
3) 🔯 Inforr	nation Disclosure Statement(s) (PTO/SB/08)	5) D Notice of	Informal Patent Application			
Pape	r No(s)/Mail Date <u>11/13/03</u> .	6) 🔲 Other:	 .			

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DETAILED ACTION

1. Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claim is indefinite because the recitation in claim 2 that "an impedance matching circuit is provided to connect the output of said filter means with said input of said analog to digital converter" is contrary to the recitation in claim 1 that "an output of said filter means is directly connected to an input of said analog to digital converter"

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1,4,5 and 7 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Kim (2001/0006539 A1).

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Kim discloses in figure 6 a radio signal receiver including a saw filter whose output is directly connected to an input of an analog to digital converter as claimed.

5. Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim (2001/0006539 A1) as applied to claims 1 above and further in view of Takahashi (6,121,859).

It is noted that Kim does not specifically disclose impedance matching circuits as claimed. However, Takahashi disclose in figure 2 a saw filter having input and output connecting to impedance matching circuits (6,8). It would have been obvious to a person of ordinary skill in the art to provide impedance matching circuits at the input and output of the saw filter in Kim as taught by Takahashi in order to prevent interelectrode break caused by application of static electricity (see Takahashi, Col. 1, lines 50-55.)

6. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kim (2001/0006539 A1).

It is further noted that Kim does not specifically discloses the analog to digital converter having a differential input as claimed. However, since analog to digital converters with differential input are well known in the art. It would have been obvious to a person of ordinary skill in the art to provide the analog to digital converter of Kim with a differential input in order to reduce noise.

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D. Ngo whose telephone number is (571) 272-3731. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Chuong D Ngo Primary Examiner Art Unit 2193